Listing of Claims:

The following listing of claims is provided for the convenience of the Examiner.

No amendments are made to the claims in this paper.

- (Previously Presented) A digital wallet, secured with a user's access code, for reproducing a confidential datum for said user, said digital wallet comprising:
 - (a) a computer-implemented input for receiving an input access code;
- a seed derivation module operatively connected to said input, for deriving a seed usable to generate at least a portion of said confidential datum;
 - (c) a seed-based data generation module
- (i) implementing a predetermined data generation protocol that was previously used by a seed-based initialization of said confidential datum of said user,
 - (ii) containing a representation of a seed-access code relationship,
- (iii) configured to generate an output datum by digitally processing said derived seed in accordance with said seed-access code relationship, wherein the output datum is a function of the input access code, and
- (iv) said output datum having an appearance and reproducing at least a
 portion of said user's confidential datum when said input access code equals said user's access
 code; and
- (d) said generation of said output datum occurring without dependence on any storage of any form of said at least a portion of said confidential datum,
- (e) wherein for at least one input access code not equaling said user's access code, said seed-based data generation module generates an invalid output datum having said appearance of said user's confidential datum.

2-3. (Canceled)

 (Original) The wallet of claim 1 where said access code is a PIN, and said confidential datum includes an asymmetric cryptographic key.

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(Original) The wallet of claim 4 where said output datum has the characteristic appearance of an asymmetric cryptographic key.

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(Original) The wallet of claim 1 where said access code is a PIN, and said

confidential datum includes a symmetric cryptographic key.

7. (Previously Presented) The wallet of claim 1 where said seed-access code

relationship is an identity relationship, so that said derived seed equals said input access code.

8. (Original) The wallet of claim 1 where said seed-access code relationship

represents said derived seed as a padded version of said input access code.

(Original) The wallet of claim 1 where said seed-access code relationship includes

a version of said initial seed masked by user's access code.

10. (Original) The wallet of claim 9 where:

(i) said masked version of said initial seed includes an XOR of said initial

seed with said user's access code; and

(ii) said processing of said derived seed in accordance with said seed-access

code relationship includes XORing said masked version of said initial seed with said derived

seed.

11. (Original) The wallet of claim 10 further comprising program code for updating

an user's old access code with a user's new access code by replacing said stored masked version

of said initial seed with its value XORed with said user's old access code XORed with said

user's new access code.

12. (Original) The wallet of claim 1 where:

said seed-access code relationship includes a truncated version of said

initial seed capable of being concatenated with said input access code to form said derived seed;

and

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 (ii) said processing of said derived seed in accordance with said seed-access code relationship includes concatenating said truncated version of said initial seed with said input access code.

- (Original) The wallet of claim 1 where:
- said seed-access code relationship includes values of, and associations between, a plurality of possible values of said input access code and a corresponding plurality of possible values of said derived seed; and
- (ii) said processing of said derived seed in accordance with said seed-access
 code relationship includes looking up and outputting said possible value of said derived seed
 corresponding to said input access code.
 - 14. (Original) The wallet of claim 13 where:
 - (1) said seed derivation module is merged with said data generation module;
 - (2) said output datum includes said derived seed.
- (Original) The wallet of claim 5 where said confidential datum includes a private key of said user, and said output datum has the characteristic appearance of a private key.
- (Original) The wallet of claim 5 where said user's public key corresponding to said user's private key is pseudo-public.
- (Original) The wallet of claim 16 further comprising a digital certificate containing said pseudo-public key.
- 18. (Original) The wallet of claim 17 where said digital certificate includes an encrypted version of said user's pseudo-public key encrypted under a certifier's key which is not verifiable except by authorized verifiers.
- (Original) The wallet of claim 1 configured to be remotely accessible to a roaming user across a network.

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- (Previously Presented) A computer-implemented method for securely storing and reproducing a confidential datum for said user, comprising:
 - (a) receiving an input access code;
- (b) deriving a seed usable to generate at least a portion of said confidential datum by using said received input access code;
 - (c) obtaining a representation of a seed-access code relationship;
 - (d) digitally processing said derived seed
 - in accordance with said seed-access code relationship.
- (ii) by executing a predetermined data generation protocol that was previously used by a seed-based initialization of said confidential datum of said user,
- (iii) thereby producing an output datum reproducing at least a portion of said user's confidential datum when said input access code equals said user's access code, wherein the output datum is a function of the input access code and comprises an appearance; and
- (e) said generation of said output datum occurring without dependence on any storage of any form of said at least a portion of said confidential datum,
- (f) wherein for at least one input access code not equaling said user's access code, generating an invalid output datum having said appearance of said user's confidential datum.

21-22. (Canceled)

- (Original) The method of claim 20 where said access code is a PIN, and said confidential datum includes an asymmetric cryptographic key.
- (Original) The method of claim 20 where said seed-access code relationship is a identity relationship, so that said derived seed equals said input access code.
- (Original) The method of claim 20 where said seed-access code relationship represents said derived seed as a padded version of said input access code.

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 (Original) The method of claim 20 where said seed-access code relationship includes a version of said initial seed masked by user's access code.

(Original) The method of claim 26 where:

(i) said masked version of said initial seed includes an XOR of said initial

seed with said user's access code; and

 (ii) said processing of said derived seed in accordance with said seed-access code relationship includes XORing said masked version of said initial seed with said derived

seed.

28. (Original) The method of claim 20 where:

(i) said seed-access code relationship includes a truncated version of said

initial seed capable of being concatenated with said input access code to form said derived seed;

and

(ii) said processing of said derived seed in accordance with said seed-access

code relationship includes concatenating said truncated version of said initial seed with said

input access code.

29. (Original) The method of claim 20 where:

said seed-access code relationship includes values of, and associations

between, a plurality of possible values of said input access code and a corresponding plurality of

possible values of said derived seed; and

(ii) said processing of said derived seed in accordance with said seed-access

code relationship includes looking up and outputting said possible value of said derived seed

corresponding to said input access code.

(Original) The method of claim 29 where:

(1) said deriving said seed and said executing said predetermined data

generation protocol are merged into a common operation; and

(2) said output datum includes said derived seed.

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31. (Previously Presented) A computer-readable medium having stored thereon a program executable on a computer to securely store and reproduce a confidential datum for said user, the program comprising computer logic instructions for:

- (a) receiving an input access code;
- (b) deriving a seed usable to generate at least a portion of said confidential datum by using said received input access code;
 - (c) obtaining a representation of a seed-access code relationship;
 - (d) digitally processing said derived seed
 - in accordance with said seed-access code relationship. (i)
- (ii) by executing a predetermined data generation protocol that was previously used by a seed-based initialization of said at least a portion of said confidential datum of said user.
- thereby producing an output datum reproducing said at least a (iii) portion of said user's confidential datum if said input access code equals said user's access code, wherein the output datum is a function of said input access code and comprises an appearance; and
- (e) said generation of said output datum occurring without dependence on any storage of any form of said at least a portion of said confidential datum.
- (f) wherein for at least one input access code not equaling said user's access code, generating an invalid output datum having said appearance of said user's confidential datum

32-33. (Canceled)

- 34 (Original) The computer-readable medium of claim 31 where said access code is a PIN, said confidential datum includes an asymmetric cryptographic key.
- 35. (Original) The computer-readable medium of claim 31 where said seed-access code relationship is a identity relationship, so that said derived seed equals said input access code

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 (Original) The computer-readable medium of claim 31 where said seed-access code relationship represents said derived seed as a padded version of said input access code.

 (Original) The computer-readable medium of claim 31 where said seed-access code relationship includes a version of said initial seed masked by user's access code.

38. (Original) The computer-readable medium of claim 37 where:

 said masked version of said initial seed includes an XOR of said initial seed with said user's access code; and

 (ii) said processing of said derived seed in accordance with said seed-access code relationship includes XORing said masked version of said initial seed with said derived seed.

39. (Original) The computer-readable medium of claim 31 where:

 said seed-access code relationship includes a truncated version of said initial seed capable of being concatenated with said input access code to form said derived seed;

 (ii) said processing of said derived seed in accordance with said seed-access code relationship includes concatenating said truncated version of said initial seed with said input access code.

(Original) The computer-readable medium of claim 31 where:

 said seed-access code relationship includes values of, and associations between, a plurality of possible values of said input access code and a corresponding plurality of possible values of said derived seed; and

(ii) said processing of said derived seed in accordance with said seed-access
code relationship includes looking up and outputting said possible value of said derived seed
corresponding to said input access code.

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41. (Original) The computer-readable medium of claim 40 where:

- said deriving said seed and said executing said predetermined data generation protocol are merged into a common operation; and
 - (2) said output datum includes said derived seed.
- (Previously Presented) A method for camouflaging a user's generationcamouflaged access-controlled datum under said user's access code, comprising:
- (a) initializing a user's access-controlled datum by using a generation protocol in accordance with a generation indicia;
- (b) storing in a memory in a digital wallet a predetermined relationship between said generation indicia and said user's access code;
 - (c) camouflaging at least a portion of said access-controlled datum
- such as to be reproducible by an authorized user thereof but nonreproducible by an unauthorized user thereof,
- (ii) said camouflaging including storing said predetermined relationship between said generation indicia and said user's access code;
- (iii) thereby allowing subsequent accessing of said at least a portion of said access-controlled datum via computer-based processing of an inputted access code, in accordance with said stored generation indicia-access code relationship wherein said accesscontrolled datum comprises an appearance;
- (iv) without dependence on any storage of any form of said at least a portion of said access-controlled datum;
- (v) wherein for at least one inputted access code not equaling said user's access code, generating an output datum that has said appearance of said accesscontrolled datum, wherein the output datum is a function of said input access code; and
 - (d) providing said digital wallet to said user.

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- (Previously Presented) A method for camouflaging a user's generationcamouflaged access-controlled datum under said user's access code, comprising:
- (a) initializing a user's access-controlled datum by using a generation protocol in accordance with a generation indicia;
- (b) generation-camouflaging at least a portion of said access-controlled datum such as to be reproducible by an authorized user thereof but non-reproducible by an unauthorized user thereof, wherein said access-controlled datum comprises an appearance, wherein when an incorrect datum is entered reproducing an invalid generation-camouflaged datum comprising said appearance of the user's access-controlled datum, wherein said output datum is a function of the input access code;
- (c) storing said generation-camouflaged at least a portion of said accesscontrolled datum in a digital wallet; and
 - (d) providing said digital wallet to said user.